

REMARKS

Claims 1 and 3-14 are pending. In the amendment filed on November 22, 2005 with the RCE, claims 1, 4, 8 and 11 were amended, and claims 2 and 9 were canceled. Additionally, a Petition for Suspension of Action was filed. A supplemental response is specifically allowed when an RCE is filed with a Petition for Suspension of Action. See MPEP 709 and 714.03(a). This paper is an express request to resume prosecution.

The indication in the July 22, 2005 Office Action that claims 3, 5-7, 10 and 12-14 are objected to but would be allowable if rewritten in independent form is appreciated. However, for the reasons set forth below, it is submitted that all claims are in condition for allowance.

The Office Action rejects claims 1-2, 4, 8-9 and 11 under 35 USC 103 over Ohkubo (US Pat. 6,621,250). This rejection is respectfully traversed.

The claimed invention as recited in claims 1 and 8 is directed to permit calculation of an offset value when a current value detected by a current sensor is switched from a negative value to a positive value or from a positive value to a negative value and "when an absolute value of the current value is within a predetermined range, wherein the predetermined range is based on the characteristics of a core of the current sensor." Claims 4 and 11 are directed to permit calculation of an offset value when a current value detected by a current sensor is switched from a negative value to a positive value or from a positive value to a negative value and "when a state where an absolute value of the current value is within a predetermined range is continued for a predetermined time."

A predetermined range is a range that is determined in advance. Thus, the claimed "to permit calculation of an offset value when an absolute value of the current value is within a predetermined range" requires that the calculation of the offset value occurs when an absolute value of the current is within a range that is determined in advance. Ohkubo has no disclosure of determining a range of the current value in advance, nor of permitting calculation of the offset value when the current value is within such a range that is determined in advance. Further, Ohkubo does not disclose that the

predetermined range is based on the characteristics of a core of the current sensor, as required by claims 1 and 8.

The Advisory Action refers to the detected current integrating means (80a), current sensor (40) and correcting means (80c) function and the disclosure at col. 3, lines 1-7 and 17-25. The Advisory Action asserts that these portions somehow disclose an absolute value of the current value is within a predetermined range for a predetermined time.

However, these portions of Ohkubo do not "permit calculation of an offset value when an absolute value of the current value is within a predetermined range" as required by claims 1, 4, 8 and 11, or disclose that the predetermined range is based on the characteristics of a core of the current sensor, as required by claims 1 and 8. Ohkubo does not take an absolute value of the current, does not check to see if that absolute value of current is within the predetermined range, and if it is, does not then permit calculation of the offset value. In fact, Ohkubo states "Thus, the offset is calculated irrespective of a use form of a battery, that is, for what load such as an engine starter a battery is used." See col. 3, lines 25-28. Thus, Ohkubo will calculate offset value no matter how large the load on the battery, and hence how large the current, becomes. Ohkubo does not permit calculation of the offset only when the absolute value of the current is within a predetermined range, but instead explicitly states it will calculate the offset no matter how large the load on the battery, and hence how large the current, becomes.

Accordingly, claims 1, 4, 8 and 11, and all claims dependent therefrom, are not anticipated by Ohkubo. Withdrawal of the rejection is requested.

For the above reasons, it is submitted that the application is in condition for allowance. Prompt consideration and allowance are solicited.

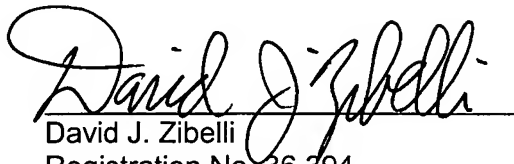
The Examiner is invited to contact the undersigned at (202) 220-4232 to discuss any matter concerning this application.

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The Office is authorized to charge any additional fees under 37 C.F.R. § 1.16 or § 1.17 or credit any overpayment to Deposit Account No. 11-0600.

Respectfully submitted,

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